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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/902,121	07/10/2001	Thomas J. Cloonan	04807000029	9082	
23418 7	23418 7590 10/05/2004			EXAMINER	
VEDDER PR 222 N. LASAI	ICE KAUFMAN & I LE STREET	HARPER, KEVIN C			
CHICAGO, IL 60601			ART UNIT	PAPER NUMBER	
		2666			
			DATE MAILED: 10/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/902,121	CLOONAN, THOMAS J.	
	Office Action Summary	Examiner	Art Unit	
		Kevin C. Harper	2666	
Dania d f	The MAILING DATE of this communication ap	pears on the cover sheet with the	ne correspondence address	
THE - External after - If NO - Failth Any	IORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl D period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS a, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).	
Status				
·	Responsive to communication(s) filed on <u>10 J</u> . This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under the second s	s action is non-final. nce except for formal matters,	•	
Disposit	ion of Claims			
5)⊠ 6)⊠ 7)□	Claim(s) 1-3,8-10,13-15 and 19-22 is/are pend 4a) Of the above claim(s) is/are withdra Claim(s) 13-15 and 19-22 is/are allowed. Claim(s) 1-3 and 8-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.		
Applicat	ion Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 10 July 2001 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification to the specification is objected to be specification.	☑ accepted or b)☐ objected drawing(s) be held in abeyance. tion is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	is have been received. Is have been received in Appli rity documents have been rec u (PCT Rule 17.2(a)).	cation No eived in this National Stage	
Attachmen	nt(s)			
1) 🔯 Notic 2) 🔲 Notic 3) 🔲 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		nary (PTO-413) ail Date nal Patent Application (PTO-152)	

Response to Arguments

Applicant's arguments filed July 10, 2001 have been fully considered but they are not persuasive.

1. Applicant argued that Kilkki is not concerned with priority as defined in the Specification and as described in the Remarks. Although the priority of Kilkki is relative to the measured bit rate and nominal bit rate (NBR), the NBR is a user negotiated rate determined by user service fees, such that a user subscribing to a higher NBR will pay more for the service (col. 5, lines 26-29 and 41-43). Therefore, the definition of priority in Kilkki is similar to the definition of levels of priority as described by Applicant in the Specification and in the Remarks.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-2 and 8-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kilkki (US 6,081,505).

2. Regarding claims 1-2, Kilkki discloses a method for providing data packet congestion control (abstract, last five lines). The method comprises the steps of determining the particular service flow associated with a data packet and the flow rate of the particular service flow (Figure 1, step 44 and Figure 2), quantizing the data packet flow rate into at least one priority level

(Figure 3, step 76), detecting the instantaneous buffer circuit depth (Figure 1, step 50), and processing the packet (Figure 1, steps 52 and 54) in response to the data packet flow rate, the data packet priority, and the current buffer circuit depth (Figure 6, steps 95-98; Figure 3, steps 74-76).

- 3. Regarding claim 8, the occupancy level of the buffer is detected (col. 7, lines 27-30).
- 4. Regarding claim 9, the priority level is stored in the cell header (Figure 3, step 78) and later read (Figure 9, step 113).
- 5. Regarding claim 10, the header of each cell is read to determine the associated service flow (Figure 15, step 210; note: VCI/VPI).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kilkki (US 6,081,505) in view of Belanger et al. (US 2003/0137938).

6. Kilkki discloses detecting an instantaneous buffer circuit depth (Figure 1, step 44). However, Kilkki does not disclose detecting an average value for the buffer depth. Belanger discloses using an average buffer depth to determine congestion (para. 15, lines last six lines). Therefore, it would have been obvious to one skilled in the art at the time the invention was

invention was made to use an average value of buffer depth in the invention of Kilkki in order to avoid congestion due to a persistently high volume of data traffic.

Allowable Subject Matter

7. Claims 13-15 and 19-22 are allowed.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Khaunte (US 6,546,017) discloses determining priority and bandwidth request allocation for cable modem users (Figures 4-5 and 8).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:30 AM to 8:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 571-272-3174. The centralized fax number for the Patent Office is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only (applications must be associated with a customer number). For more information about the PAIR system, see pair.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin C. Harper

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